

Application Serial No. 10/796,886
Amendment Dated December 5, 2005
Reply to Office Action Dated October 4, 2005

Listing of Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) A wastewater source control system for reducing entry of wastewater with sanitary sewage from ~~a running trap~~ plumbing fixtures of a building ~~[[drain]]~~ to a sewer main in response to a high flow in the sewer main, the wastewater source control system comprising:

building drain piping comprising running traps having upstream ends connected to respective ones of the plumbing fixtures;

a sewer service line ~~[[having]]~~ comprising

an upstream end connected to the building drain piping downstream of the running traps, the sewer service line comprising no connection to a plumbing fixture supplying wastewater with sanitary waste without an intervening running trap, the building drain and

a downstream end connected to the sewer main, the sewer service line conducting a flow of wastewater with sanitary sewage from the running traps building drain to the sewer main;

a flow control device installed in the sewer service line downstream of the running traps and receiving the flow of wastewater with sanitary sewage from the running traps, the flow control device automatically closing in response to a backflow of wastewater and/or stormwater from the sewer main[[, through] entering the sewer service line and contacting and closing the flow control device, the closing of the flow control device substantially inhibiting the flow of wastewater with sanitary sewage from the running traps from flowing into the sewer main toward the building drain, and the flow control device automatically opening in response to the backflow of wastewater and/or stormwater receding from contact with the flow control device, thereby permitting a normal flow of wastewater with sanitary sewage from the running traps the building drain, through the sewer service line and into the sewer main; and

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a detention tank ~~[[disposed]]~~ connected in the sewer service line upstream of the flow control device and downstream of the running traps, the detention tank detaining substantially all of the flow of wastewater with sanitary sewage from the running traps building drain in response to the flow control device being closed, and ~~[[the]]~~ detained wastewater with sanitary sewage draining from the detention tank upon the flow control device subsequently opening.

2. (original) The wastewater source control system of claim 1 wherein the flow control device is disposed near a downstream end of the sewer service line.
3. (original) The wastewater source control system of claim 2 wherein the detention tank is disposed near a downstream end of the sewer service line.
4. (original) The wastewater source control system of claim 2 wherein the detention tank is disposed near an upstream end of the sewer service line.
5. (original) The wastewater source control system of claim 1 further comprising a service box and the flow control device is disposed in the service box.
6. (original) The wastewater source control system of claim 1 wherein the detention tank and flow control device are disposed near an upstream end of the sewer service line.
7. (original) The wastewater source control system of claim 6 wherein the detention tank and flow control device are located inside a perimeter of the building.

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8. (currently amended) A method of reducing entry of wastewater with sanitary sewage from ~~a running trap~~ plumbing fixtures of a building ~~[[drain]]~~ into a sewer main in response to a high flow in the sewer main, the method comprising:

providing

building drain piping comprising running traps having upstream ends connected to respective ones of the plumbing fixtures,

a sewer service line ~~[[having]]~~ comprising

an upstream end connected to the building drain piping downstream of the running traps, the sewer service line comprising no connection to a plumbing fixture supplying wastewater with sanitary sewage without an intervening running trap, and

a downstream end connected to the sewer main, the sewer service line conducting a flow of [[the]] wastewater with sanitary sewage from the ~~running traps~~ building drain to the sewer main, [[;
providing]]

a flow control device connected in the sewer service line downstream of the running traps and receiving the flow of wastewater with sanitary sewage from the running traps, and

a detention tank connected in the sewer service line upstream of the flow control device and downstream of the running traps;

automatically closing the flow control device in response to a backflow of stormwater from the sewer main[[, through]] entering the sewer service line and contacting and closing the flow control device, the closing of the flow control device substantially inhibiting the flow of wastewater and sanitary sewage from the running traps from flowing into the sewer main up to the flow control device; and

detaining substantially all of the flow of wastewater with sanitary sewage from the ~~running traps~~ building drain in the detention tank while the flow control device is closed.

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9. (currently amended) The method of claim 8 further comprising:

automatically opening the flow control device in response to ~~[[a flow]]~~ the
backflow of stormwater receding from contact with ~~away from~~ the flow control device;
and

automatically draining ~~[[the]]~~ detained wastewater with ~~[[the]]~~ sanitary
sewage ~~detained in~~ from the detention tank in response to the flow control device
being open.